Conti

a destination device profile interpreter that interprets a destination device profile to convert coordinates in a destination device color space to the device-independent color space; and

a color transformer that generates a color map defining a relationship between the source and destination device color spaces based on the converted coordinates and user preferences specified by a user independently of the source and destination device profiles.

- 26. The system of claim 25, wherein the user preferences include illuminant functions.
- 27. The system of claim 25, wherein the user preferences include observer functions.
- 28. The system of claim 25, wherein the color transformer adjusts the source and destination device profile interpreters based on the user preferences.
- 29. The system of claim 25, wherein the source and destination profile interpreters are configured as removable plug-in modules for use by the color transformer.
- 30. The system of claim 25, wherein the source and destination device profile interpreters are configured based on white- and black-point parameters to account for color variations between media and colorants used by different color display devices.
- 31. The system of claim 25, wherein the source and destination device profile interpreters are configured based on pleasing color corrections.

CONT:

32. The system of claim 25, wherein the color transformer generates the color map in part by reducing color error between the converted coordinates from the source and destination device profile interpreters.

- 33. The system of claim 32, wherein the source and destination device profile interpreters use forward transformation profiles to produce the converted coordinates, and the color transformer adjusts coordinates in the destination device color space to reduce the color error, the color map being based in part on the adjusted coordinates in the destination device color space.
- 34. The system of claim 25, wherein the source device profile contains raw spectral data that characterizes a source device, and the destination device profile contains raw spectral data that characterizes a destination device.
- 35. The system of claim 25, wherein each of the source and destination device profiles defines a forward transformation from one of the source and destination color spaces to the device-independent color space.
  - 36. The system of claim 25, wherein the color map includes a look-up table.
- 37. The system of claim 25, wherein the color map includes a mathematical expression.

## 38. A system comprising:

means for interpreting a source device profile to convert coordinates in a source device color space to a device-independent color space;

means for interpreting a destination device profile to convert coordinates in a destination device color space to the device-independent color space; and

means for generating a color map defining a relationship between the source and destination device color spaces based on the converted coordinates and user preferences specified by a user independently of the source and destination device profiles.

- 39. The system of claim 38, wherein the user preferences include illuminant functions.
- 40. The system of claim 38, wherein the user preferences include observer functions.

## 41. A method comprising:

interpreting a source device profile to convert coordinates in a source device color space to a device-independent color space;

interpreting a destination device profile to convert coordinates in a destination device color space to the device-independent color space; and

generating a color map defining a relationship between the source and destination device color spaces based on the converted coordinates and user preferences specified by a user independently of the source and destination device profiles.

- 42. The method of claim 41, wherein the user preferences include illuminant functions.
- 43. The method of claim 41, wherein the user preferences include observer functions.
- 44. A data storage medium storing computer code that, when executed: interprets a source device profile to convert coordinates in a source device color space to a device-independent color space;

interprets a destination device profile to convert coordinates in a destination device color space to the device-independent color space; and